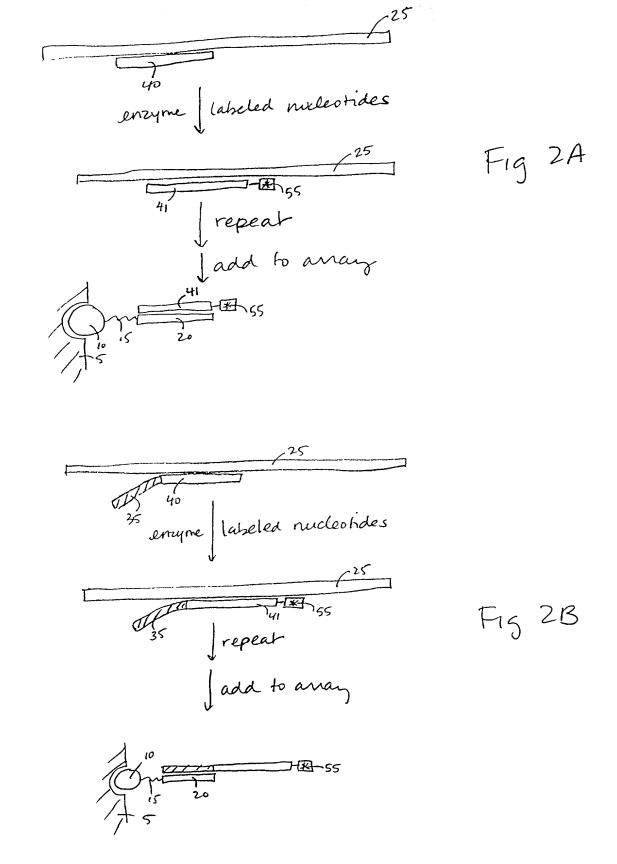
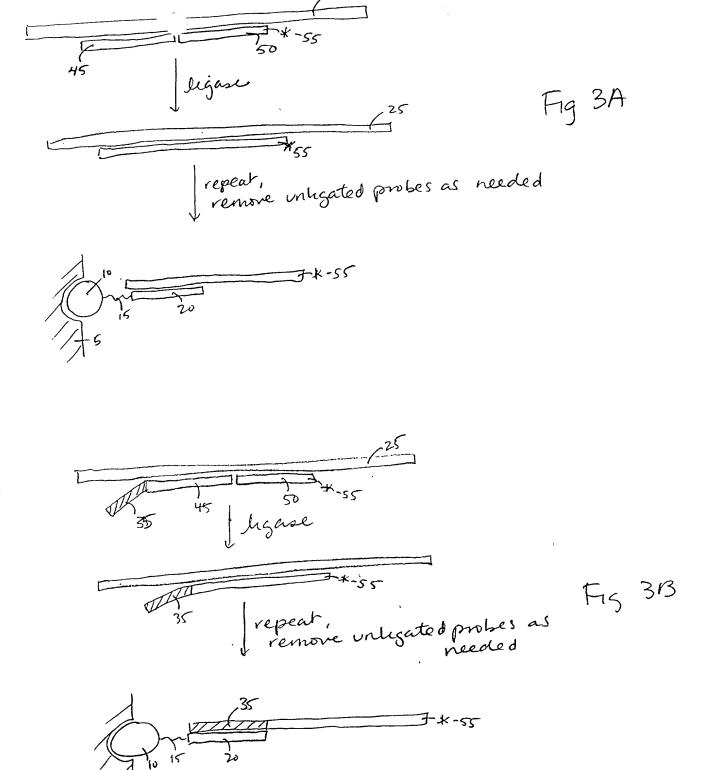
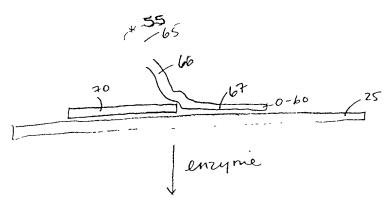


Fig !







repeat, remove uncleaved probes if required

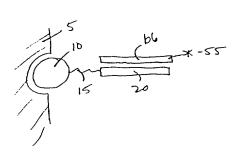


Fig 4

repeat, remove uncleaved probes if necessary nove uncleaved probes if necessary

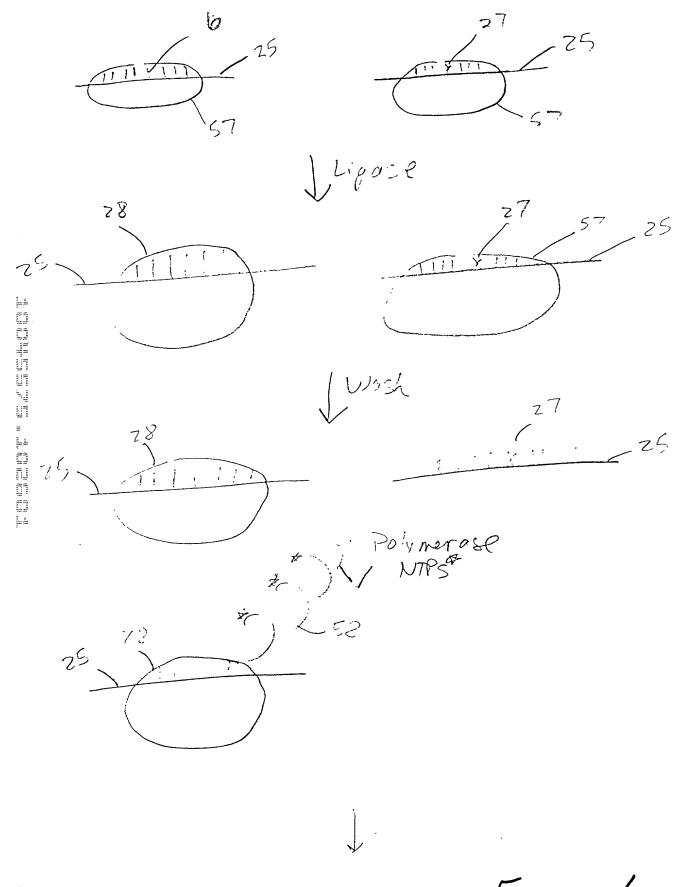


FIGURE 6

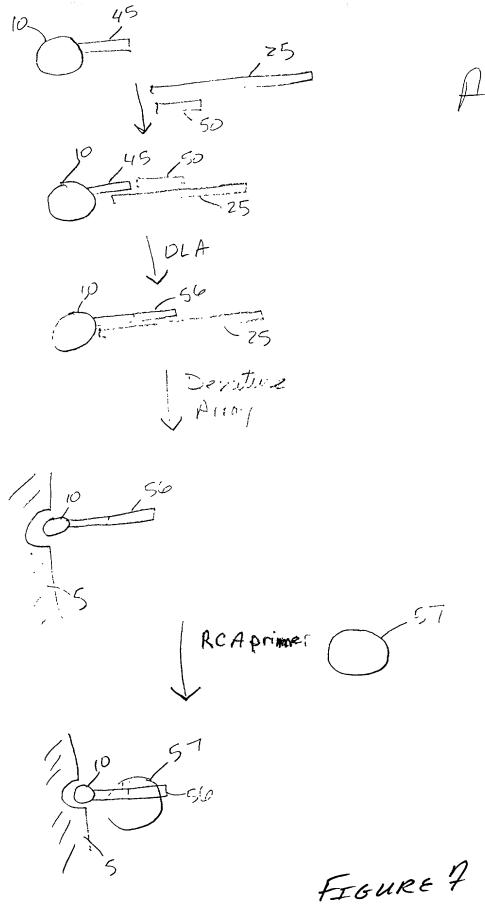
Restriction Endorucle9se

¥ 59

5 10 21

59

FIGURE 6 Continued



Polymerase NTPs

FIGURE? (Continuil)

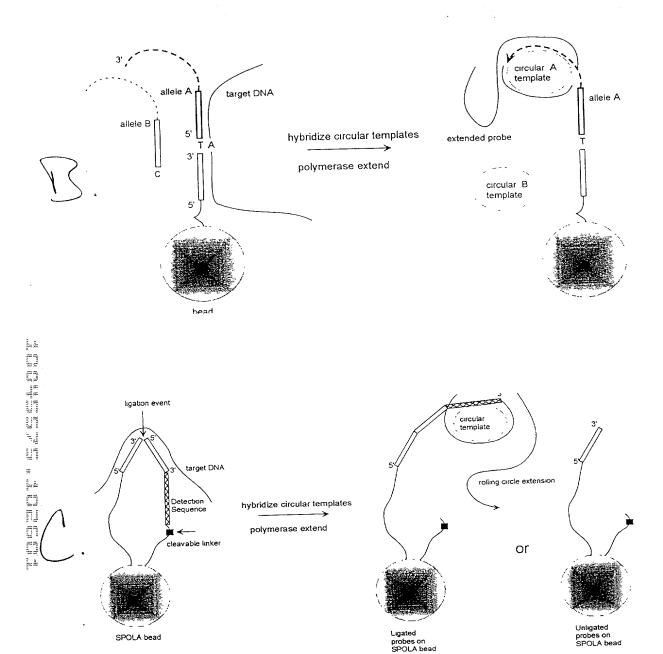


Figure 7 continuel

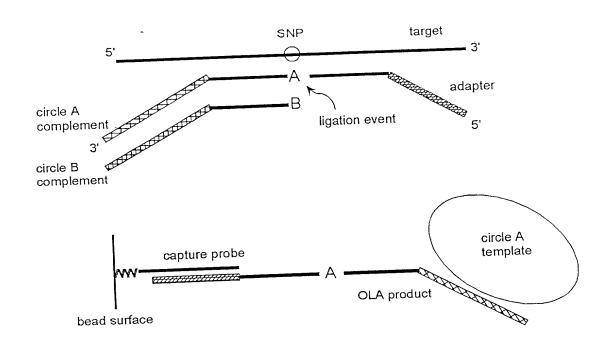


Figure 7 Contino

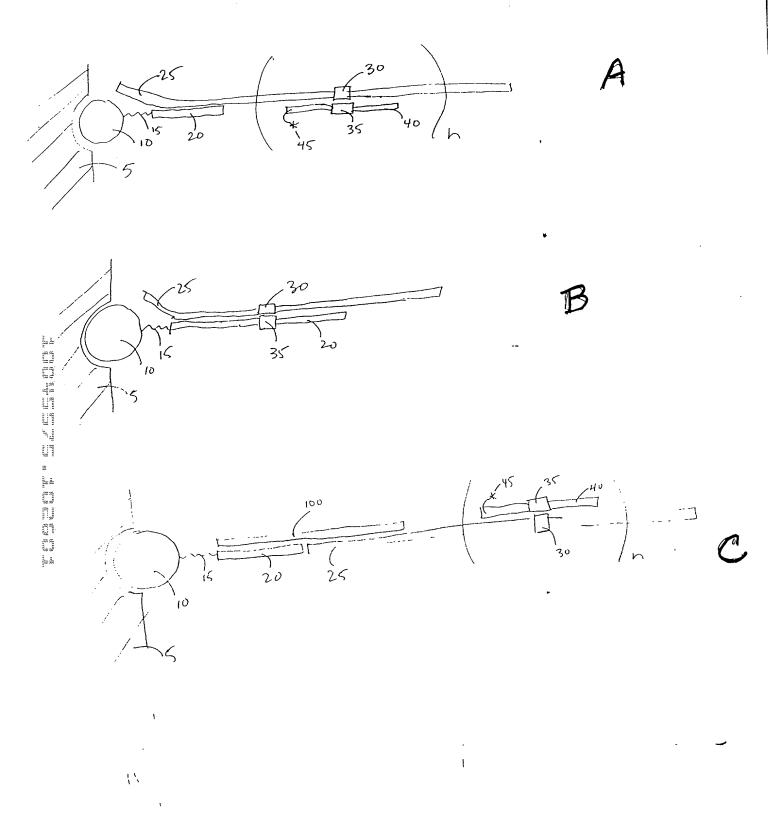
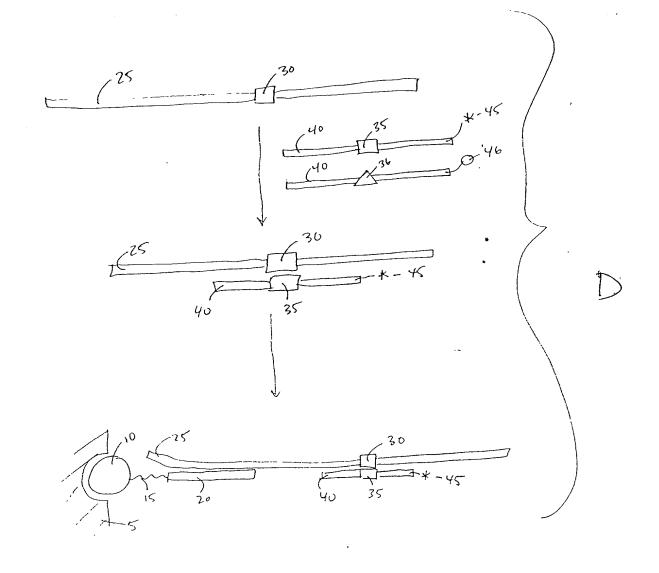


FIGURE 8



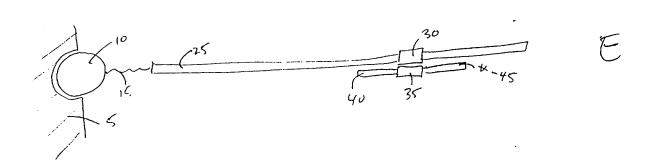


FIGURE 8 (continued)

FIGURE 9

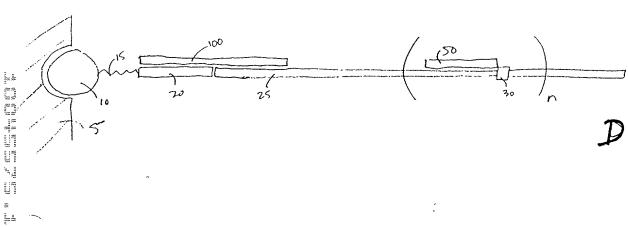


FIGURE 9 (continued)

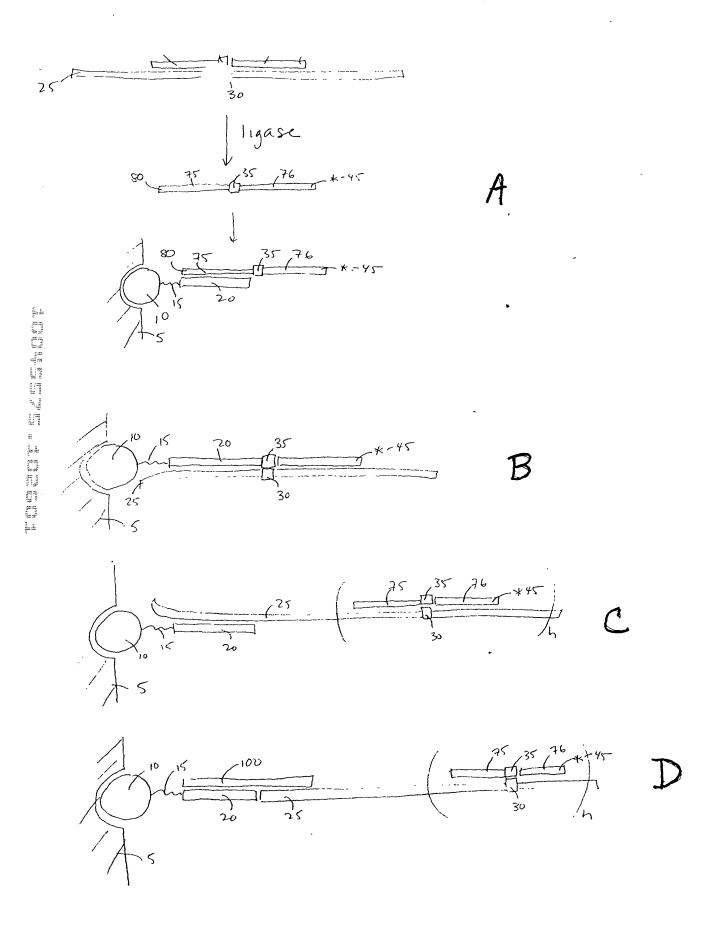


FIGURE 10

10 25 35 76 x 45

| ligate
| to anay :

FIGURE 10 (continue) ¥7015 Surface FIGURE 11

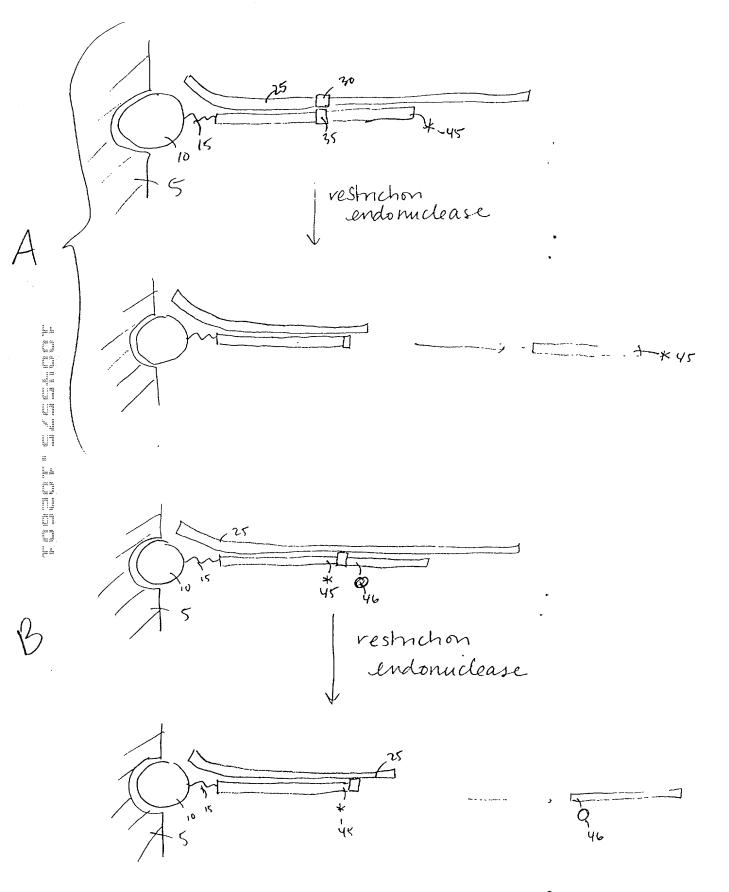


FIGURE 12

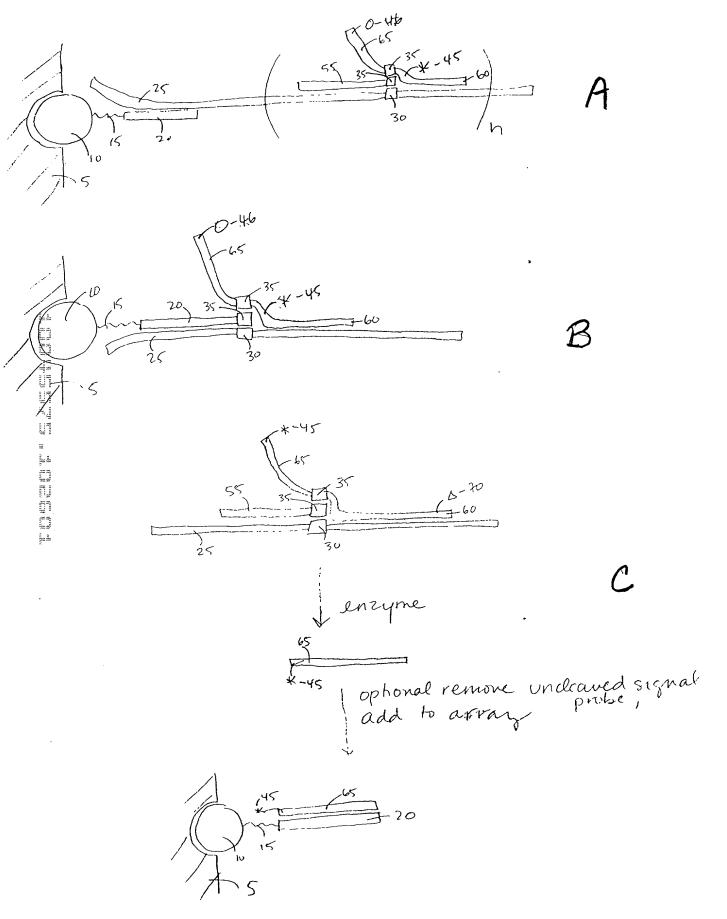


FIGURE B

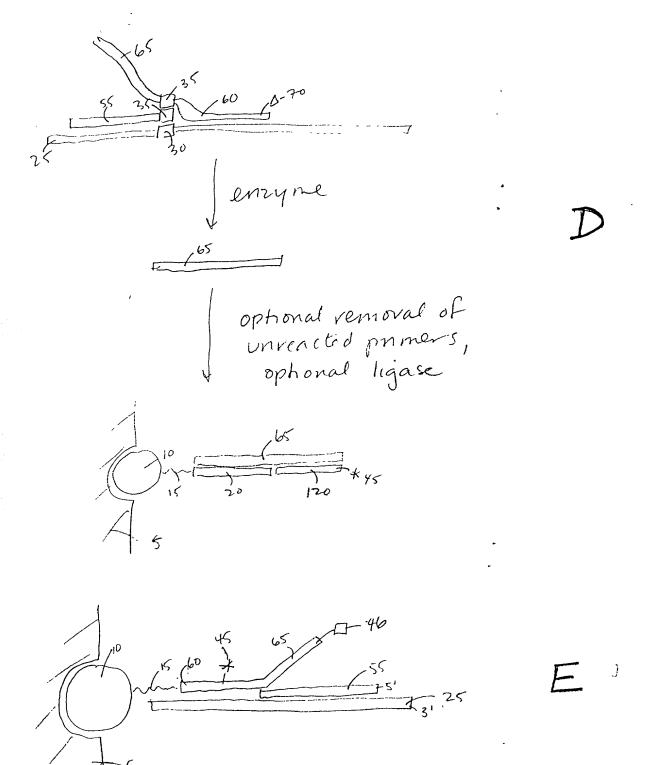


FIGURE 13 (continue)

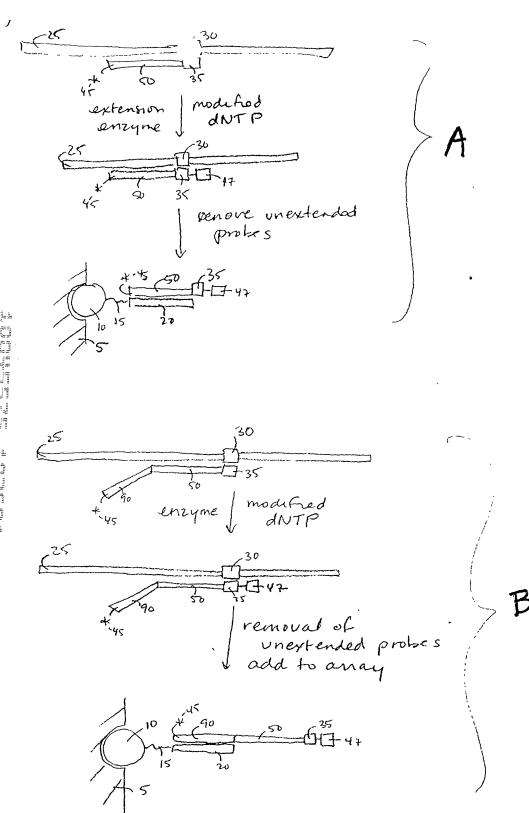


FIGURE 14

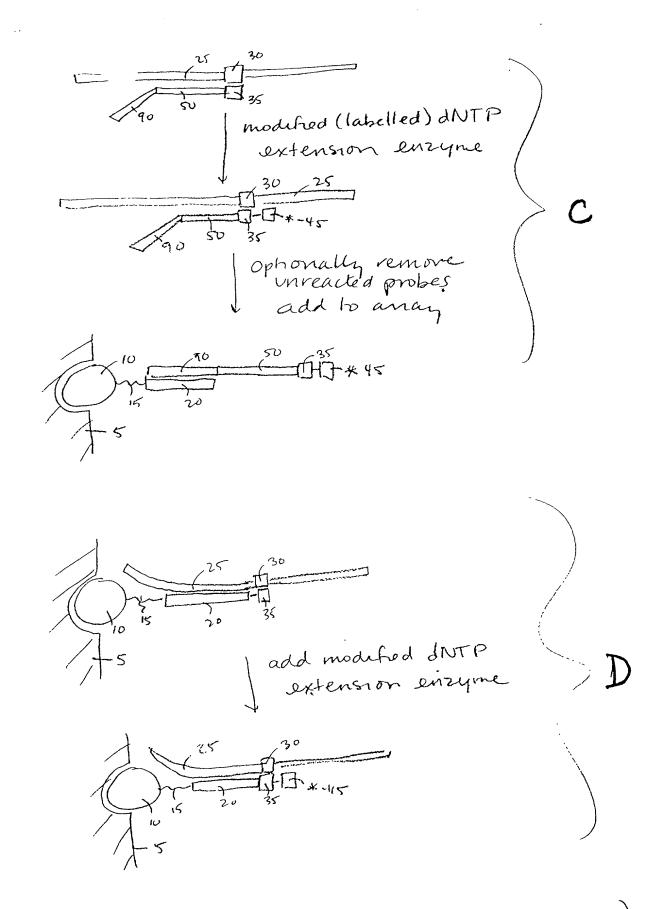


FIGURE 14 (continual)

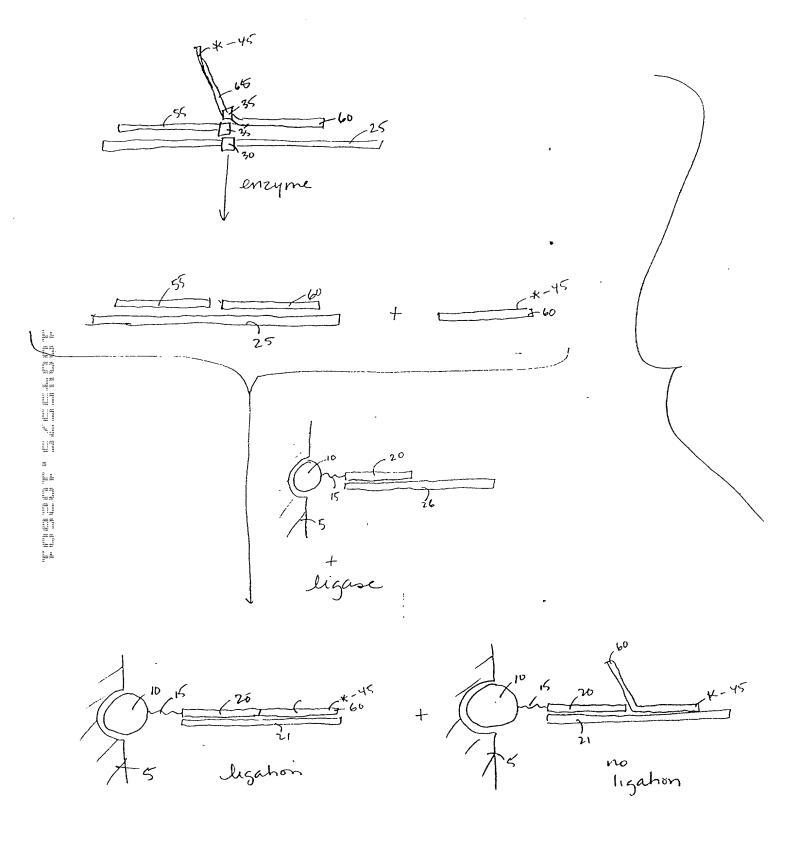
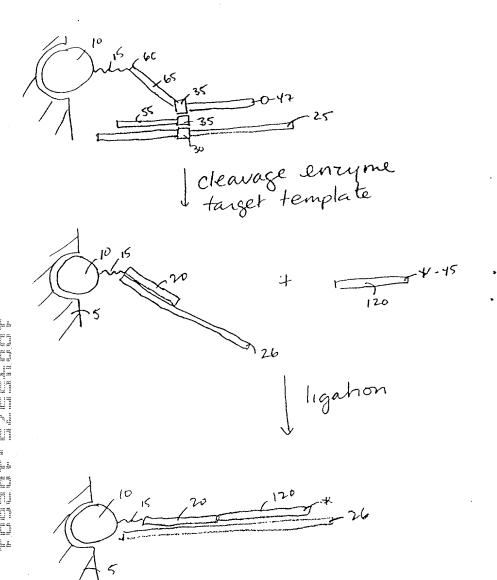


FIGURE 15A



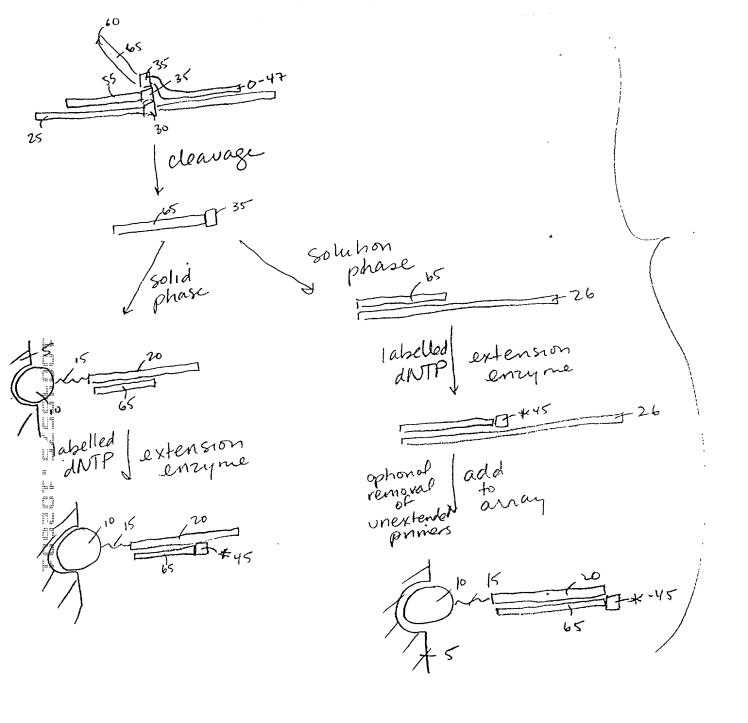


FIGURE 16A

labelled dNTP

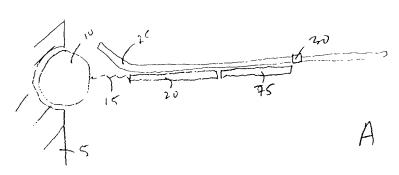
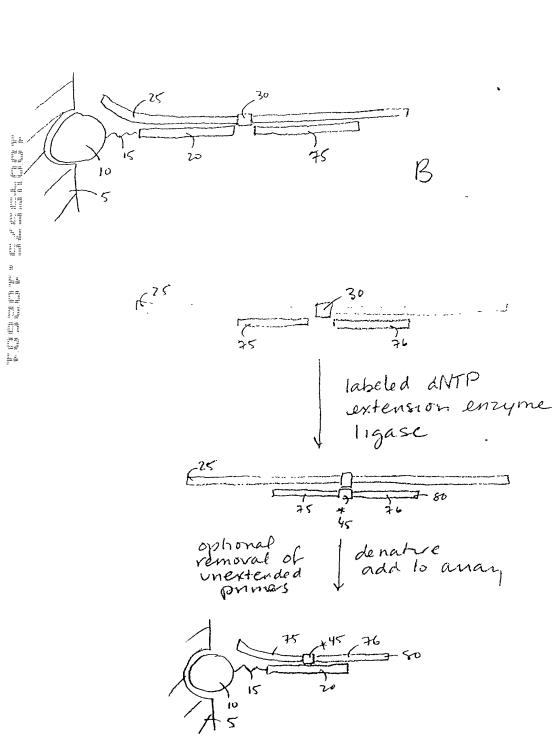
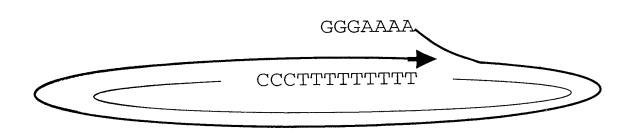


FIGURE 17



The first first condition that the most form and most to be such that the

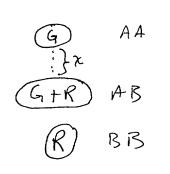


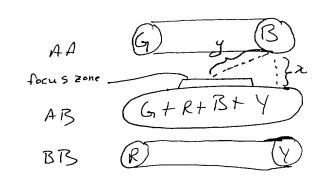
Multi-Lubeled Probe

Grenotype	Signal
A A	6/6
AB	G/R
BB	RIR

Genotype	Signal
AA	G, 13/G, B
AB	G,B/RY
BB	R, Y / R, Y

Signal Range





x = Single label distance y = Multi label distance

Figure 19

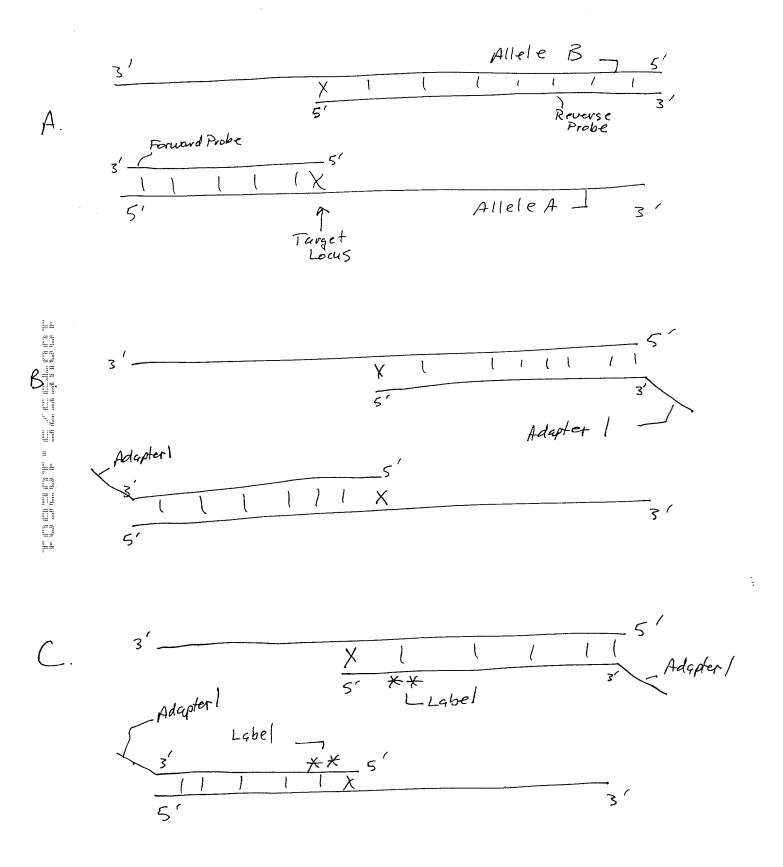


Figure 20

Figure ZO (continued)

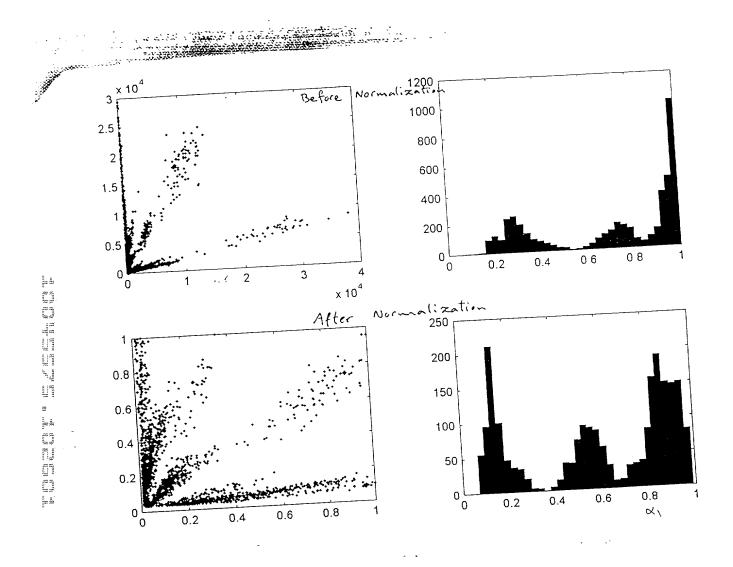
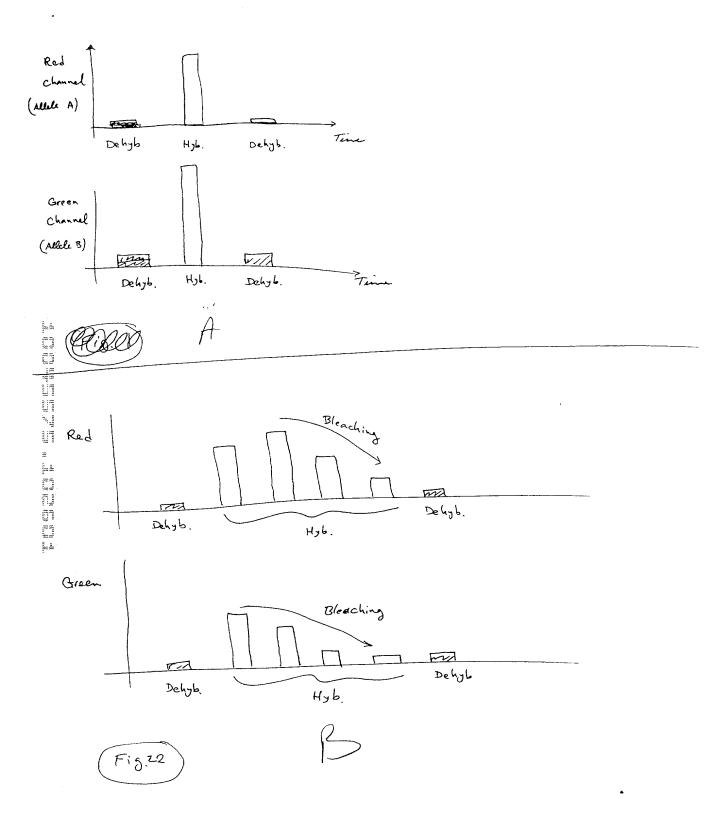


Figure 21



=

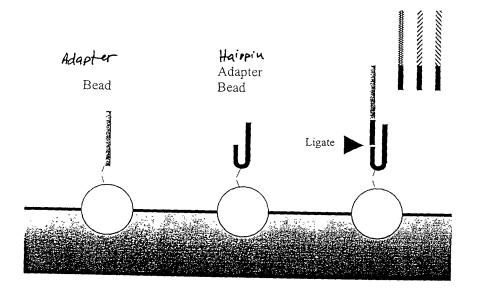
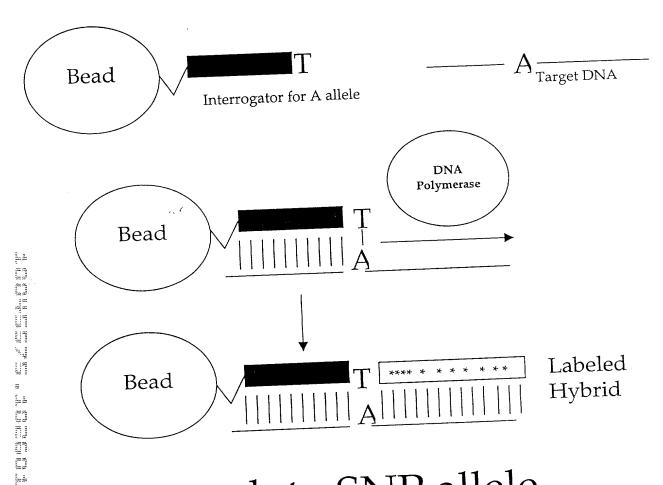
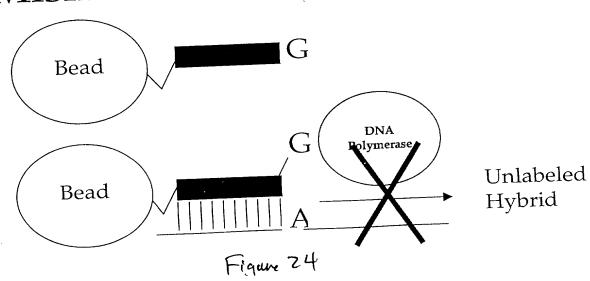


Figure 23

A. Match to SNP allele



B. Mismatch to SNP allele

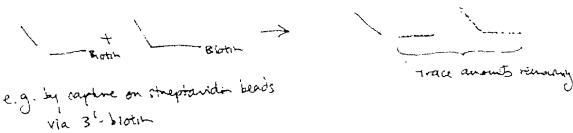


) Invader reaction

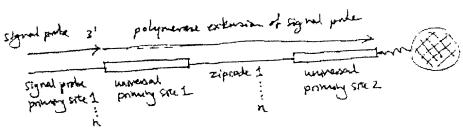
water signal probe

mixture of cleaned & uncleaned Signal probes.

2) Removal of uncleared signal probes



3) Signal probe primes synthesis of amplicon target strand



- A) PCR amphibitation
 rewly cynthemed target stands are denotined from target 2 transferred
 to PCR reaction (universal primers, divers, rag polymersse) for
 multiplex PCR. Inversal primers are labelled e.g. with motion.
 - 5) Array hybridization PCR amplicons containing expeds are hybridized to array

Figure 25

Invader-Rolling (Ich

Invader reaction

Meder Signal probe

target

Gignal probe acts as primer on "rolling circle" template Dust

Tophenal zip-rode"

Solid - phase version:

reastrictmente (optimal)

rolling circle template is bethered to surface e.g. to localized "features" in an array format, or to beads.

localization segure

hybridization to adjacent probes
or recovered for my Uquid phase for hybridization
to a deleteration array. e.g. by errayments clearage

Figure 76